

## Special Issue

# Cardioprotection and Mitochondrial Signaling: Insights from Molecular Mechanisms to Therapeutic Strategies

### Message from the Guest Editor

Mitochondrial dysfunction is a key feature of ischemia/reperfusion damage, as well as heart failure, both the leading causes of death and disability worldwide. Therefore, cardioprotective strategies to prevent alterations of the function of these organelles are currently directed toward reducing the formation of reactive oxygen species, inhibiting the opening of the mitochondrial permeability transition pore, regulating kinase signaling and maintaining mitochondrial quality control. This Special Issue will publish original articles focused on mitochondria as a therapeutic target and novel forms of cardioprotection with the potential to be translated to clinical settings for improving outcomes in AMI patients and preventing heart failure. All submissions will be peer-reviewed, following the same evaluation criteria as individual *IJMS* submissions.

---

### Guest Editor

Dr. Cecilia Zazueta  
Instituto Nacional de Cardiologia Ignacio Chavez, Tlalpan, Mexico

---

### Deadline for manuscript submissions

20 May 2025



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 8.1  
Indexed in PubMed



[mdpi.com/si/206790](https://mdpi.com/si/206790)

*International Journal of  
Molecular Sciences*  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[ijms@mdpi.com](mailto:ijms@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[ijms](https://www.ijms.com)





# International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 8.1  
Indexed in PubMed



[mdpi.com/journal/](https://mdpi.com/journal/ijms)

[ijms](https://ijms)



## About the Journal

### Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

---

### Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Inorganic Chemistry)